L 44589-66 EWT(m)/EWP(j)/T IJP(c) RM	7
L 44589-66 EWT (m)/EWP(3)/T IJP(c) RM ACC NR: AP6015679 (A) SOURCE CODE: UR/0413/66/000/009/0078/0078 32	
INVENTOR: Korolev, G. V.; Smirnov, B. R.; Yarkina, V. V.; Berlin, A. A.	
INVENTOR: Korolev, G. V.; Smirnov, B. A., Tarana,	
ODG. Tare	1
ORG: none	
TITLE: Preparation of formulations which can be polymerized when exposed to light	
Class 33, No. 181300 6	
	3
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 7	
TOPIC TAGS: photopolymerization, polymerization	
ABSTRACT: This Author Certificate introduces a method of preparing formulations	
ABSTRACT: This Author Certificate introduces a management of a polymer base, a suitable for photopolymerization. The formulations contain a polymer base, a suitable for photopolymerization.	
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compound that can be polymerized and a polymerization that can be polymerized and a polymerization, the compound containing material and to plasticize it temporarily during processing, the compound containing material and to plasticize it temporarily during processing, the compound containing material and to plasticize it temporarily during processing, the compound containing material and to plasticize it temporarily during processing, the compound containing material and to plasticize it temporarily during processing, the compound containing material and to plasticize it temporarily during processing.	1) R
material and to plasticize it temporarily during processing, incomparization. [LI in its chain groups is suggested as suitable for polymerization.	3
[Translation]	
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L. 09253-67 EMT(m)/EMP(j) IJP(c) NM/WM ACC NR. AP6029910 (A) SOURCE CODE: UR/0413/66/000/015/0086/0087 INVENTORS: Bass, S. I.; Berlin, A. A.; Yarkina, V. V.; Sbinar, L. A. ONG: none TITLE: A method for imparting heat resistance to hardened phonolaldehydride resins. Class 39, No. 184431 / SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 86-87 TOPIC TACS: thermal stability, thermal process, resin, heat resistant plastic ABSTRACT: This Author Certificate presents a method for imparting heat resistance to discount to the content of the	The state of the s
ABSTRACT: This Author Certificate presents a method for imparting to them (prior to hardened phenolaldehydride resins. This is accomplished by adding to them (prior to hardened phenolaldehydride capable of interlinking and containing 1016—their hardening) stabilizing compounds capable of interlinking and containing 1016—their hardening) stabilizing compounds capable of interlinking and containing 1016—their hardening) stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram. To produce high-temperature stabilization (at 1019 paramagnetic particles per gram.)	The Constitution
are used as stabilizers.	
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AFRIKYAN, A.N.; YARKINA, Ye.P.

Isolation of oil-reservoir rocks in carbonate sediments based on the materials of geophysical study of wells. Trudy VNIING no.1:179-190 '62. (MIRA 16:10)

AFRIKYAN, A.N.; YARKINA, Ye.P.

Isolation of karst zones by industrial and field geophysical methods in sections of Volgograd Province. Geol.nefti i gaza 6 no.4:55-58 Ap '62. (MIRA 15:4)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina i Volgogradskiy nauchno-issledovatel'skiy institut neftyanoy i gazovoy promyshlennosti. (Volgograd Province---Karst)

YARKOV, A.

Automobile plant workers aid collective farms and machine-tractor stations. Sel'.stroi. 10 no.2:12 F 155. (MIRA 8:4)

1. Glavnyy mekhanik avtozavoda im. Stalina, predsedatel' shefskoy komissii.

(Collective farms)

TARASOV, Vladimir Mikhaylovich; YARKOV, A.M., inzh., retsenzent; KOSOROTOV, B.V., inzh., red.; GARANKINA, S.P., red. izd-va; EL'KIND, V.D., tekhn. red.

[Air-piston compressors; manual] Vozdushnye porshnevye kompressory; spravochnoe posobie. Moskva, Mashgiz, 1962. 157 p. (MIRA 15:7)

(Air compressors) (Automatic control)

YAKOVLEV, Vasiliy Nikolayevich; YARKOV, A.M., inzh., red.; IVANOVA, K.N., inzh., red. izd-va; SPIRNOVA, G.V., tekhm. red.

[Repairing equipment of machinery plants]Remont oborudovaniia mashinostroitel'nykh zavodov; spravochnoe posobie. Moskva, Mashgiz, 1962. 292 p. (MIRA 15:9) (Industrial equipment—Maintenance and repair)

RASKATOV, V.M., inzh.; KOKHTEV, A.A.; LELYANOV, V.A.; BESSONOVA, N.F.; VEYS, D.A.; KARABANOVA, L.T.; SILANT'YEV, M.G.; SITNICHENKO, A.I.[deceased]; CHYENKOV, V.S.; YARKOV, A.M., inzh., retsenzent; GARANKINA, S.P., red.izdeva; TIKHANOV, A.Ya., tekhn. red.

[Brief handbook on materials used in the machinery industry]
Kratkii sprayochnik po mashinostroitel'nym materialam. Pod
obshchey red. V.M.Raskatova. Moskya, Moskgis, 1963. 440 p.
(MIRA 16:7)

(Materials)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

REYNGOL'D, Ye.G.; YARKOV, A.M., inzh., retcenzent

[Coordinate points on a circle; reference tables] Koordinaty tochek okruzhnosti; spravochnye tablitsy. Moskva, Mashinostrochie, 1964. 115 p. (MIRA 17:8)

CHERNAVSKIY, G.N., kand. tekhn. nauk, dots. [deceased]; YARKOV, A.M., inzh., retsenzent; KUNIN, P.A., inzh., red.

[Fundamentals of an efficient use of automatic and semiautomatic lathes; machining ring and bushing type parts] Osnovy ratsional'nogo ispol'zovaniia tokarnykh avtomatov i poluavtomatov; obrabotka detalei tipa kolets i vtulok. Moskva, Izd-vo "Mashinostroenie," 1964. 214 p. (MIRA 17:7)

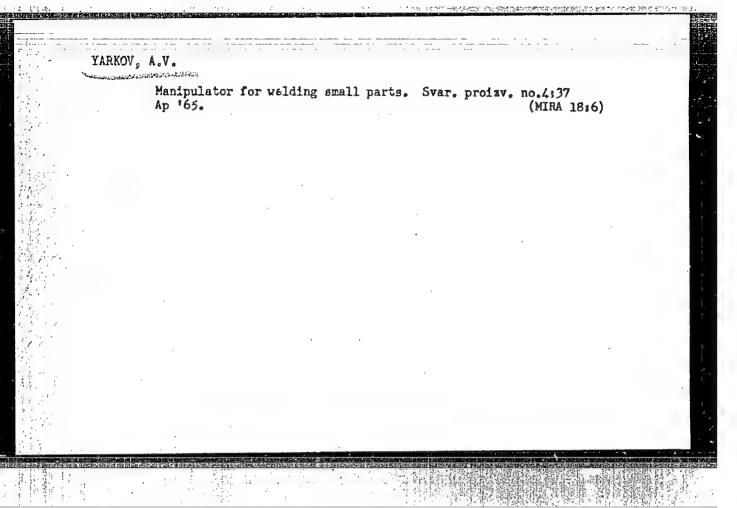
VOLCHKEVICH, L.I.; USOV, B.A.; LEBEDEV, A.S., inzh., retsenzent; YARKOV, A.M., inzh., retsenzent; MALOV, A.N., prof., red.

[Automatic feed mechanisms] Avtooperatory. Moskva, Mashinostroenie, 1965. 142 p. (MIRA 18:12)

COL'DIN, M.M.; ZUYEV, V.D.: PINUS, L.A.: FONOMADEW. V.F.; CHERNYSHEV, V.Ye.; LIKHIN, N.I., inzh., retsenzent; YARKOV, A.M., inzh., red.

[Adjustment and operation of automatic lines composed of standard units; a handbook] Naladka i ekspluatatsiia avtomaticheskikh linii iz normalizovannykh uzlov; spravochnos posobie. Moskva, Mashinostroenis, 1965. 443 p.

(MIRA 18:10)



YARKOV, A.V.

Attachment to the ADK-500 automatic velding machine for the welding of small diameter parts. Svar. proizv. no.10:38 0 (MIRA 16:11)

1. Kurganskiy mashinostroitel'nyy zavod.

YARKOV, A.V.

A waste-gas-heated drying apparatus for welding electrodes. Svar. proizv. no.9:40 S 165. (MIRA 18:9)

1. Kurganskiy zavod khimicheskogo mashinostroyeniya.

YARKOV, Dmitriy Mikhaylovich

[Gredit for collective farms] Proizvodstvennce kreditovanie kolkhozov.

Moskva, Gos. izd-vo selkhoz lit-ry, 1956. 79 p. (MIRA 9:12)

(Gollective farming—Finance)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

YAPKOV, EMITERY MIKHAYLOVICH

7/3.3.

Finansirovaniye I Kreditovaniye Sel' Skokhozyaystvennykh Predpriyatiy
(Financing and Crediting of Agricultural Enterprises) Moskva, Sel'Khozgiz, 1957.

29h P. Tables.

ALEKSANDROV, Yu.; PILIPUSHKO, I.; VOLCHENKO, V.; SENDEROV, I.; LIMARENKOV, L.; YARKOV, G.; YEMTSEV, I.; KUKHAREV, N.; SHCHEKOTOVICH, P.; BOBOVICH, V.; CHEREPANOV, G.

They are raising the level of their qualifications. Zashch.rast. ot vred.i bol. 7 no.5:61 My *62. (MIRA 15:11) (Plants, Protection of—Study and teaching)

DAY IDENKOV, N.N.: YARKOV, V.A.

Brittle failure due to biaxial compression. Zhur.tekh.fiz. 25
no.12:2200-2202 0 '55. (NLRA 9:1)

(Gypsum) (Strains and stresses)

S/187/60/000/001/003/003 A189/A026

6,6000

Yarkov, V.A.

AUTHOR:

PTU-5 Underwater Television Unit

PERIODICAL: Tekhnika kino i televideniya, 1960, No. 1, pp. 44 - 48

TEXT: The author describes the NTY -5 (PTU-5) underwater closed-circuit television unit, which was displayed at the 1958 World Exhibition in Brussels. It consists of the following 5 separate units interlinked by cables: 1) Bathyshere containing a Mu-17 (LI-17) camera tube, focussing and deflecting system, preamplifier assembled on four 6155 (62H5B) tubes, and a power source for the camera tube. Size without illuminators: 745 mm long, 222 mm in diameter; weight in water -0 + 1 kg. 2) Control and pulse forming unit containing video amplifier, compensating signal generator, video monitor with 13JK25 (13LK2B) kinescope, and a control panel. Size: 179 x 328 x 418 mm; weight - 14 kg. 3) Power supply unit a control panel. Size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 4) Switching unit serves for supply-size: 179 x 328 x 418 mm; weight - 18 kg. 5) Additional video monitor assembled on 35/K25 (35LK2B) kinescope; size and weight are not given. The purpose of this additional video

Card 1/2

PTU-5 Underwater Television Unit

S/187/60/000/001/003/003 A189/A026

monitor is to permit the simultaneous observation of the image by several observers. The camera tube uses interlaced scanning; 625 lines; 25 frames per sec.; 4 x 3 picture aspect ratio (width toheight). Power supply - 220 volts, + 5%, 50 cps. The unit was successfully tested in underwater operation in 1958. There are 7 photographs.

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

YARKOV, V. N., BOGOMOLOV, K. S., and DOBROSERDOVA, E. P.

"Investigation of the Electron Sensitivity of Photographic Emulsions." paper given at the International Conference on Scientific Photography, Cologne, 24-27, Sep 1956

E-3,068,138

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

YARKOV, V. N. and DOBROSERDOVA, Ye. P.

"Electromicroscopical Investigation of the Crystallization of Silver Halide During Photographic Emulsion Making," a paper presented at the International Conference on Scientific Photography, Cologne, 24-27 Sep 1956

E-3072367

YANKOY, Y. H., DOLGOSENDOYA, Ye. P., and DodoMofay, R. J.

"Investigation of the electron sensitivity of photographic emulsions," a paper submitted at the International Conference of Scientific Photography, Cologre, FRG, 24-27 Sep 56.

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YARKOV, Vyacheslav Vyacheslavovich; OSINTSEV, A.S., prof., doktor ekon. nauk, retsenzent; CHAPAYKINA, F.K., red. izd-va; MATLYUK, R.M., tekhn. red.

[Learn to manage]Uchis' khoziaistvovat'. Sverdlovsk, Metallurgizdat, 1961. 43 p. (MIRA 15:9) (Steel industry--Management) (Industrial management)

 YARKOV, Nyacheslav Vyacheslavovich; BARKAS, V.M., red.izd-va;
GINZBURG, H.Ya., tekhn. red.

[Learn to manage] Uchis' khoziaistvovat'. Izd.2., perer. i
dop. Moskva, Metallurgizdat, 1963. 57 p. (MIRA 16:12)
(Russia—Economic policy)
(Steel industry—Management)

YARKOV, Vyacheslavovich; KOVALEVSKIY, M.A., red.izd-va; EN'YAKOVA, G.M., tekhn. red.

[Establishment of work norms and wages] Normirovanie truda i zarabotnaia plata. Izd.2., perer. i dop. Moskva, Metallurgizdat, 1963. 64 p. (MIRA 17:1)

YARKOVA, A.S., aspirantka

Comparative effectiveness of fattening young swine of the Large White breed to various live weights. Izv. TSKHA no.3:112-117 '62. (MIRA 15:9)

l. Nauchnyy rukovoditel' professor A.P. Red'kin. (Swine-Feeding and feeds)

TRAPEZNIKOV, A.I.; CHUKIN, S.A.; BEDRIN, V.A.; KOZYREV, D.I.; BUTOVSKAYA, A.P.; YARKOVA. D.A.

Automation and mechanization of auxiliary operations in metalworking. Prom. energ. 17 no.11:10-11 N '62. (MIRA 15:12) (Metalworking machinery)

Reaction of triethyl phosphite with P-bromovinyl sulfones.
Zhur. ob. khim. 35 no.4:759 Ap '65.

(MIRA 18:5)

1. Kazarskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.

ARBUZOV, B.A.; BUTENKO, G.G.; YARKOVA, E.G.

Reaction of dibenzylphosphinic acid with formic acid esters. Izv. AN SSSR. Ser. khim. no.6:1085-1088 165.

(MIRA 18:6)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.

YARKOY, Sergey Petrovich, prof. [deceased]; prinimali uchastiye:
GRECHIN, I.P., kand. sel'khoz. nauk, dotsent; KAURICHEY, I.S.,
kand. sel'khoz. nauk, dotsent; KULAKOY, Ye.Y., st. nauchnyy
sotrudnik; YAHKOYA, M.A., pochvoved; TYURIN. I.V.. akademik,
otv. red.; PAYLOY, A.N., red. izd-va; YEGOROVA, N.F., tekhn.
red.

[Soils of the forest-meadow zone of the U.S.S.R.] Pochvy lesolugovoi zony SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1961. 317 p. (MIRA 14:5)

1. Kafedra pochvovedeniya Moskovskoy Ordena Lenina Sel'skokhozyaystvonnoy Akademii im. K.A. Timiryazeva (for Grachin, Kaurichev) 2. Pochvenno-agronomichaskiy muzey im. ".R. Vil'yamsa (for Kulakov)

(Soils)

 ZAKHARYAN, V.M., inzh.; YAFROVA, H.D., inzh.

Simplified mathodology for the conversion of universal electric motors. Elektrotekhnika 35 no.5249-52 Ny 64 (MURA 17:8)

YARKOVA, V.M.

Rare case of fog formation. Meteor. i gidrol. no.2:32-33 F 166.

(MIRA 19:1)

1. Novosibirskiy aviameteorologicheskiy tsentr. Submitted April 14, 1965.

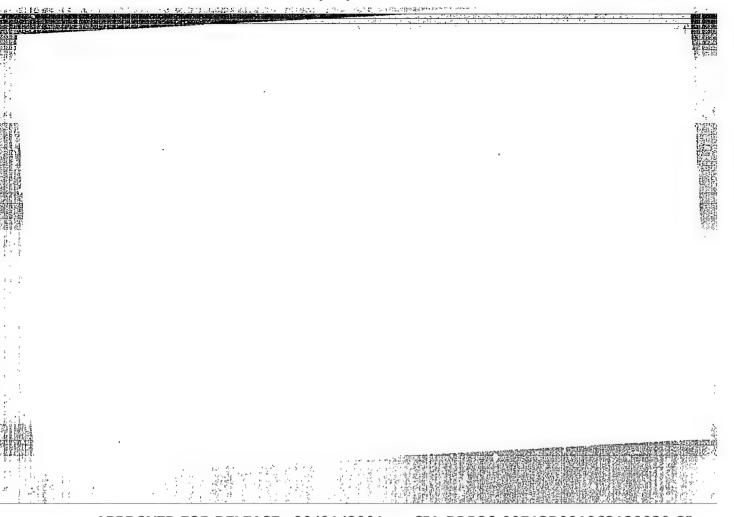
YARKOVETH, A.I.

Effect of the tightening pressure on the strength of tolt joints.

Izv. vys. ucheb. zav.; av. tekh. 8 no.1:149-155 '65.

(MIRA 18:3)

YARKOVETS, A. I., Cand. Tech. Sci. (diss) "Investigation of Effect of Technological Factors on Quality of Bolted Connections Used in Designs of Airplanes," Moscow, 1981, 16 pp. (Moscow Aviation Inst.) 200 copies (KL Supp 12-61, 278).





YARKOVETS, M. 1.

YARKOVETS, M. 1. -- "The Problem of Arrhythmia in "hildren." Cand Med Sci, Second Hoscow Medical Inst imeni 1. V. Stalin, 25 Jan 5h. (Meditsinskiy Habotnik, 8 Jan 5h)

so: sum 168, 22 July 1954

YARKOVICH, Svyatoslav [IArkovich, Sviataslau], inzh.

Once again she followed Gaganova's example. Rab.i sial. 38 no.1:9-10 Ja '62. (MIRA 15:4)

1. Zavod shveynykh mashin, g. Orsha. (Orsha Sewing machines)

In the village of Pashino. Rab. i sial. 39 no.2:5 F 163.

In the village of Pashino. Rab. i sial. 39 no.2:5 F 163.

(MIRA 16:4)

1. Sekretar! partiynogo byuro, agronom-ekonomist kolkhoma
"Kamintern" Orshanskego rayona.

(Orsha District—Flax)

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I LICOLOGO FAT(II) LIP(C) SOURCE CODE: UR/0057/00/0057	do
ACC NRI AP6018721	B
AUTHOR Yarkovoy, O.I. (Deceased)	
ORG: none	
ORG: none ORG: none TITLE: A nonstationary solf-consistent model of an azimuthally uniform ring of the charged particles in an external electromagnetic field charged particles in electromagne	
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approximation from solutions of the differential equations conjugate to the equations of motion, and with the aid of that integral the equations of motion are reduced to a set of nonlinear differential equations that, at least under some conditions, are tractable. In the present paper all proofs, as well as the motivations for some of the assumptions, are omitted, reference being made to the preprint cited above and to other papers of the author. The x-linear approximation imposes no limitations on the time dependence of the external field and does not involve linearization of the kinetic equation. The resulting theory is a kinetic theory, rather than a several-component hydrodynamic theory, in the sense that at each point there is a continuous distribution of momenta. The stress tensor vanishes only on the boundary of the particle beam, and the theory accordingly permits calculation of the motion of the boundary. The final equations can be simplified in certain special cases that are discussed very briefly; in the case of an adiabatic process the equations reduce to a set of algebraic equations. The calculation technique can be generalized to the case of an azimuthally nonuniform charged particle ring; it was the author's intention to present such a generalization in the near future. The author thanks V. I. Veksler, Ya. B. Faynberg, and E.A. Perel'shteyn for their interest in the work and for discussions. Orig. art. has:

sub code: 20,12/

SUBM DATES OlJun65/

ORIG.REF: 004/ OTH REF: 001/

Card 2/220

YARKOVOY, O.I.

[Steady state of an axially symmetrical system of charged particles] O stationarnom sostoianii aksial'no-simmetrichnoi sistemy zariazhennykh chastits. Dubna, Obmedinennyi in-t iadernykh issledovanii, 1962. 10 p. (MIRA 15:2) (Particles (Nuclear physics)) (Quantum theory)

YARKOVOY, O.I.

Steady state of an avially symmetric system of charged particles.

(MIRA 15:11)

(Particles (Nuclear physics))

24.6710

S/057/62/032/011/001/014 B104/B102

AUTHOR:

Yarkovoy, 0. I.

TITLE:

The stationary state of an axisymmetric system of charged

particles

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 32, no. 11, 1962, 1285-1290

TEXT: A self-consistent collisionfree and axisymmetric system of charged particles is investigated. It is shown in the introduction that the general solution to the kinetic equation of this system is given by $\{fH\} = 0$, where f is a distribution function depending on the two integrals H and \mathbf{M}_{Θ} of the equations of motion

 $f = \frac{c^{2}\kappa}{8\pi^{2}e^{2}} \delta(H - H_{0}) \delta(M_{0} - M_{0}), \qquad (8).$

The self-consistent field is determined by:

 $\Delta \varphi = -4\pi \rho,$ $\operatorname{rotrot} \mathbf{A} = \frac{4\pi}{\sigma} \mathbf{j},$ (6)

Card 1/6

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The stationary state of an ...

$$\rho = e \int f dV_{j} = \rho (\mathbf{r}, \, \varphi, \, \mathbf{A}, \, \cdots),$$

$$\mathbf{j} = e \int \mathbf{v} f dV_{j} = \mathbf{j} (\mathbf{r}, \, \varphi, \, \mathbf{A}, \, \cdots).$$
(7),

where dV is the volume element in the momentum space. In states with fixed energy and generalized momentum the charge density is given by

$$\rho = \frac{e^{2x}}{8\pi^{2}e} \int \delta(H - H_{0}) \, \delta(M_{0} - M_{0}) \, \frac{dM_{0}dP_{r}dP_{e}}{r} = \frac{e^{2x}}{4\pi er} \int_{0}^{\infty} \delta(H - H_{0}) \, p_{1}dp_{1} =$$

$$= \frac{\pi}{4\pi er} \int_{eq+\sqrt{m^{2}e^{4} + \frac{e^{4}}{r^{3}}(M_{e} - \frac{e}{e}rA_{0})^{3}}} \delta(H - H_{0}) [H - e\varphi] \, dH =$$

$$= \frac{\pi}{4\pi er} (H_{0} - e\varphi) \, \sigma \left[(H_{0} - e\varphi)^{2} - m^{2}e^{4} - \frac{e^{2}}{r^{2}} (M_{0} - \frac{e}{e}rA_{0})^{3} \right], \qquad (10)$$

$$= \frac{\pi}{4\pi er} (H_{0} - e\varphi) \, \sigma \left[(H_{0} - e\varphi)^{2} - m^{2}e^{4} - \frac{e^{2}}{r^{2}} (M_{0} - \frac{e}{e}rA_{0})^{3} \right], \qquad (10)$$

$$= \left[\frac{1}{0} \, \text{при } x > 0 \right], \qquad (10)$$

card 2/6

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The stationary state of an ...

and the current density by

$$j_{0} = \frac{c^{2} \pi}{8\pi^{3} e} \int \left(\frac{M_{0}}{r} - \frac{e}{c} A_{0} \right) \frac{c^{3}}{H - e^{\gamma}} \delta(H - H_{0}) \delta(M_{0} - M_{0}) \frac{dM_{0} dP_{r} dP_{e}}{r} = \frac{c^{2} \pi}{4\pi e r} \int_{e^{\gamma} + \sqrt{\pi^{3} e^{4} + \frac{e}{r^{2}} \left(M_{0} - \frac{e}{e} A_{0}\right)} \delta(H - H_{0}) dH = \frac{\pi^{3}}{4\pi e r} \left(\frac{M_{0}}{r} - \frac{e}{c} A_{0} \right) \sigma \left[(H_{0} - e^{\gamma})^{3} - m^{2} c^{4} - \frac{e^{3}}{r^{3}} \left(M_{0} - \frac{e}{e} r A_{0}\right)^{3} \right].$$

$$(11),$$

where $\vec{j} = (0, j_0, 0)$. For the region S, which is free from external charges and currents, the system (6) has the form

$$\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial \varphi}{\partial r} \right) + \frac{\partial^{2} \varphi}{\partial z^{2}} = -\frac{\pi}{er} \left(H_{0} - e \varphi \right) \sigma_{1}$$

$$\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial A_{0}}{\partial r} \right) - \frac{A_{0}}{r^{2}} + \frac{\partial^{2} A_{0}}{\partial z^{2}} = -\frac{\pi c}{er} \left(\frac{M_{0}}{r} - \frac{e}{a} A_{0} \right) \sigma_{2}$$
(12).

Card 3/6

The stationary state of an ...

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As regards the region S of the self-consistent field in the (r,z) plane, which can include particles of the system, the field φ and the individual components A_{Θ} of A are expressible as

Ψ = 9c + 9e; Ag = Agc + Age and the equations (6) take the form

JA

$$\frac{1}{r}\frac{\partial}{\partial r}\left(r\frac{\partial E}{\partial r}\right) - \frac{x}{r}E + \frac{\partial^{2}E}{\partial z^{2}} = 0,$$

$$\frac{1}{r}\frac{\partial}{\partial r}\left(r\frac{\partial p_{4}}{\partial r}\right) - \left(\frac{x}{r} + \frac{1}{r^{2}}\right)p_{5} + \frac{\partial^{2}p_{4}}{\partial z^{2}} = 0.$$
(18).

Here ψ_c and $A_{\Theta c}$ belong to the internal field of the system and ψ_e and $A_{\Theta e}$ to the external field. Also,

$$\varphi_{e} = \int G_{\varphi}(r, r', z, z') \, p(r', z') \, r' dr' dz',$$

$$A_{1e} = \frac{1}{c} \int G_{A}(r, r', z, z') \, j_{1}(r', z') \, r' dr' dz',$$
(14)

Card 4/6

APPROVED FOR RELEASE: 09/01/2001

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S/057/62/032/011/001/014 B104/B102

The stationary state of an ...

$$G_{\gamma} = \int_{0}^{2\pi} \frac{d\theta}{\sqrt{r^{2} + r'^{2} - 2rr'\cos\theta + (z - z')^{2}}},$$

$$G_{\lambda} = \int_{0}^{2\pi} \frac{\cos\theta d\theta}{\sqrt{r^{2} + r'^{2} - 2rr'\cos\theta + (z - z')^{2}}}.$$
(15)

$$H_0 - e\varphi = E,$$

$$\frac{M_0}{\epsilon} - \frac{e}{\sigma} A_0 = p_0,$$
(16).

On account of its nonlinearity for given ψ_e and $\Lambda_{\Theta e}$ the system (18) is very difficult to solve, whereas the field equation (12) offers the.

possibility of a general solution. For the region S, (12) can be written in the form

$$E = -\frac{\pi}{4\pi} \int_{\mathcal{S}} G_{q} E dr' dz' + H_{0} - e \gamma_{s},$$

$$p_{0} = -\frac{\pi}{4\pi} \int_{\mathcal{S}} G_{s} p_{s} dr' dz' + \frac{M_{0}}{r} - \frac{e}{c} A_{s}.$$
(19).

Card 5/6

The stationary state of an ...

S/057/62/032/011/001/014 B104/B102

An arbitrary particular solution of (12) is discussed. The boundaries of the region can be determined, and physical considerations require that ψ_e and $\lambda_{\theta e}$ should satisfy the homogeneous Maxwell equation in a certain domain \bar{S} (S $\subset \bar{S}$, S and \bar{S} have no common points). This requirement, however, is equivalent to demanding that φ and λ_{θ} should satisfy the homogeneous Maxwell equation in the region $\bar{S}-S$, which gives rise to an unusual situation in that a Cauchy problem exists for equations of the elliptic type. Even though no proof is known that a unique solution to this problem exists, the author shows that analytic solutions to the system (19) for the region surrounding the boundary of S are sufficient. In the absence of the corresponding mathematical theorem, however, these solutions cannot be analytically continued beyond the boundary of S.

SUBMITTED: March 5, 1962

Card 6/6

YARKOVOY, V.S.; IVANOV, V.D.

Structure of the transition zone during the welding of dissimilar steels. Hetalloved. i term. obr. met. no. 6: 48-50 Je 164. (MIRA 17:7)

YHKKEVSKIY, KUPCHE

Czechoslovakia/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour

Referat. Zhurnal Khimiya No 6, 1957, 18889

Author

Vandenandad -- ee e

Inst

Yarkovskiy, Kupcho.

Title

: On the Problem Concerning the Geochemistry of Micro-

elements, in particular of Vanadium.

Orig Pub

: Geol. Prace SAV. Zpravy, 1956, No 7, 101-108.

Abstract

The results of the spectroscopical study of rocks, ores and minerals from various regions of Slovakia are briefly reported. According to 15 analyses, Si, Al, Mg, Ca, Fe, Na, K, Ti are present in the amount of 1 to 10%; Ba, Sr, Mn, Cr, V, Cu, Ni, Zn, Zr, B, Ge are present in the amount 0.01 to 1%, Fb, Sc, Co, Li, Sn, Ag, Mo, Sb, Ga, J are present in the amount of 0.0001 to 0.01%. The later te hypothesis of origin is accepted with regard to the Moitin bauxites due to the presence of rare indicator elements in them. The high concentration of V (~0.1% of V₂O₅) in graphitic schists and asphalts corresponding to the general content of organic matter is recorded. Increased content of Ge in paleogenic coal is recorded.

Card 1/1

...E..

YARLOV, M.	10.7
Forests and Forestry	d
With the transformers of nature, Klub No. 12, 1952.	
9. Monthly List of Russian Accessions, Library of Congress, Nay 1	953. Unclassified.

KUDRYAVTSEV, N. T.; TYUTINA, K.M.; YARLYKOV, M.M.

Electrodeposition of the alloy tin-antimony. Trudy MKHTI no.26:120-127 159. (MIRA 13:9)

(Tin-antimony)

KRUGLIKOV, S.S.; VOROB'YEVA, G.F.; KUDRYAVTSEV, N.T.; YARLYKOV; M.M.; ANTONOV, A.Ia.

Mechanism of surface leveling in the electrodeposition of metals.

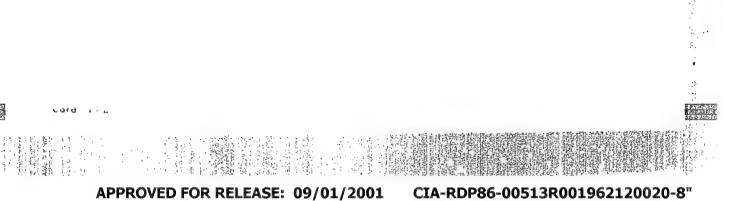
Dokl. AN SSSR 149 no.4:911-914 Ap '63. (MIRA 16:3)

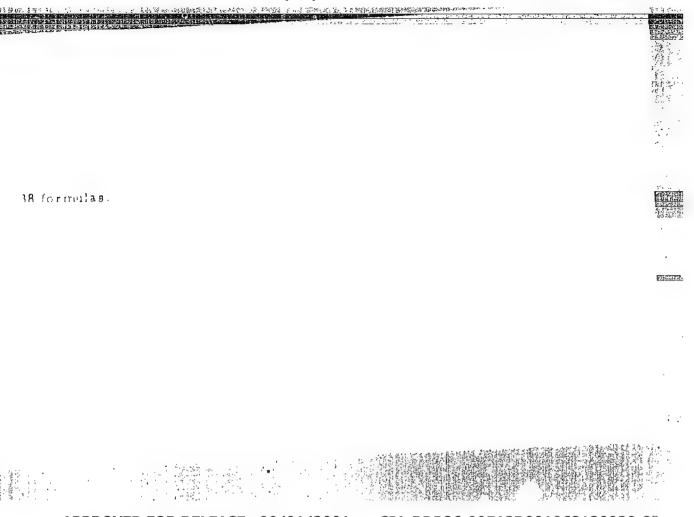
1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.Mendeleyeva. Predstavleno akademikom A.N.Frumkinym. (Electroplating)

KUDRYAVTSEV, N.T.; YARLYKOV, M.M.; MEL'NIKOVA, M.M.

Value of the PH cathode in the layer in electrolytes during electrodeposition of nickel and iron. Zhur. prikl. khim. 38 no.3:545-555 Mr 165. (MIRA 18:11)

1. Submitted March 9, 1963.





"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

YARLYKOV, S.A..

Early and later results of surgery for chronic tonsillitis in rheumatic fever patients. Vrach, delo no.5:645-647 Je '58 (HRA 11:7)

1. Klinika bolezney ukha, gorla i nosa (zav. - prof. T.Ya. Abramov)

1. klinika gospital'noy terapii (zav. - prof. V.S. Nesterov) Voronezhekoi klinika gospital'noy terapii (zav. - prof. V.S. Nesterov) Voronezhekogo meditsinskogo instituta.

(TONSIIS-SURGERY)

(RHEUMATIC FEVER)

YARLYKOV, S.A.

Postoperative period in tonsillectomy in rheumatic fever patients.

(MIRA 13:5)

Sov.med. 24 no.1:53-56 Ja 160.

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof. T.Ta.
Abramov) i kafedry gospital noy terapii (zav. - prof. V.S.
Eesterov) Voronezhakogo meditsinskogo instituta.

(TONSILECTOMY)
(RHEUMATIC HEART DISEASE surgery)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8"

YARLYKOV, S. A., Cand Med Soi -- "Englosoity of tonsillectomy in patients) ** Voronezh, 1960 (Ivanovo State Med Inst). (KL, 1-61, 212)

YARLYKOV. S.A.

Late results of tonsillationy in patients with chronic tonsillitis and rheumatic fever. Zhur. ush., nos. i gorl. bol. 20 no.5:63-67 S-0 '60. (MIRA 14:6)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof. T.Ya.
Abramov) i kafedry gospital noy terapii (zav. - prof. V.S.Nesterqv)
Voronezhskogo meditsinskogo instituta.
(TONSILS.—DISEASES) (RHEUMATIC HEART DISEASE)

YARLYKOV, S.A.

别是打印的社会化学社会国际发展的关系,这个社会工程的现在分类的政治和共和党的政治和企业,但是不是不是不是不是不是

Clinical aspects of foreign bodies in the respiratory tracts of children. Sov. med. 27 no.12:76-78 0 '64. (MIRA 18:11)

1. Klinika bolezney ukha, gorla i nosa (ispolnyayushchiy obyazannosti zaveduyushchego - kand. med. nauk S.A. Yarlykov) Voronezhskogo meditsinskogo instituta.

ENT(d)/ENT(1)/FCC/ENP(v)/ENP(k)/ENP(h)/ENP(1) GN SOURCE CODE: UR/0146/65/008/006/0127/0131 (A) I 11806-66 ACC NR. AP6002183 AUTHOR: Gridin, A. S.; Yarlykova, T. A. ORG: Dept. of Special Optical Instruments, Leningrad Institute of Precision Mechanics and Optics (Kafedra spetsial nykh opticheskikh priborov, Leningradskiy institut tochnoy mekhaniki i optiki) TITLE: Attenuation of optical radiation passing through a dust-laden atmosphere SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 6, 1965, 127-131 TOPIC TAGS: light transmission, dust laden atmosphere ABSTRACT: It was found experimentally that coal dust largely consists of particles whose sizes considerably exceed the wavelengths of light. Hence, only the absorption and diffused reflection are taken into account in the present analysis of light transmission through a dust-laden atmosphere (formulas developed). The transmission factor of such an atmosphere was measured on a laboratory outfit where the coal dust was kept in suspension in a large pipe by blower-circulated air, and a beam of light from an incandescent lamp passing through the pipe was measured. The theoretical plot of transmission factor vs. coal-dust concentration comes very to the experimental. The results can be used in designing control systems which use a light beam in dust-laden amospheres (e.g., coal mines). Orig. art. has: 4 figures and 6 formulas. SUB CODE: 17 SUBM DATE: 04Jul64 / ORIG REF: 002/ ATD PRESS: 4/8 0 Card 1/1

YARLYKOVA, Ye.I.; YEVSTIGNEYEVA, R.P.; LUZGINA, V.N.

Mathodology of determining free protoporphyrins in erythrocytes. Lab. delo no. 11:649-650 '64. (MIRA 17:12)

1. Kafedra klinicheskoy laboratornoy diagnostiki (zaveduyushchiyprof. Ye.A.Kost) TSentral'nogo instituta usovershenstvovaniya vrachey i kafedra khimii tonkikh organicheskikh soyedineniy (zaveduyushchiy - prof. N.A.Preobrazhenskiy) Moskovskogo instituta tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.

YARLYKOVA, Ye.I.

Hemoglohin synthesis in ansmis. Trudy TSIU 77:85-89 '65.
(MIRA 18:9)

1. Kafedra laboratornoy klinicheskoy diagnostiki (sav. prof. Ye. A. Kost) TSentral'nogo instituta usovershenstvovaniya vrachey.

YARM-GAYEVA, N. T., GALKINS, K. S., KOZLOVSKIY, V. S., LOYEVSKIY, H. L., ROVENSKAYA, N. M., SHUL'GA, M. I., SHCHERBAKOVA, G. I.

"Pneumoconicsis in workers engaged underground work in coal mines, and means of its proplylaxis."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962120020-8"

YARMAK, D.F., assistent

Arterial blood supply to the renal lobules in a comparative morphologic study; preliminary report. Sbor.nauch.trud.Vin.der. (MIRA 16:2) med.inst. 18 no.2:76-80 *58.

1. Kafedra normal'noy anatomii (zav. kafedroy doktor med.nauk, prof. V.G. Ukrainskiy) Vinnitskogo gosudarstvenmogo meditsinskogo instituta.

(KIDNEYS—BLOOD SUPPLY)

YARMAK, D.F., assistent

Anatomy of the kidney in the whale. Sbor.nauch.trud.Vin.der. med.inst. 18:72-75 58. (MTRA 16:2)

1. Kafedra normal'noy matomii (zav. kafedroy doktor med.nauk, prof. V.G. Ukrainskiy) Vinnitskogo gosudarstvenmogo meditsinskogo instituta.

(WHALES) (KIDNEYS)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

YARMAK, G.A.

First finds of palsolithic tools in southern Kazakhstan. Vest. AN
Kazakh. SSR 13 no.7:104-108 Jl 57. (MLRA 10:9)
(Kara-Tau-Stone implements)

YARMAK, G.A., inzhener-geolog

First discovery of cave nitrogen-phosphate fertilizers in Kazakhstan. Sbor.nauch.trud.Kazakhstan-Guano)

(Kazakhstan-Fertilizers and manures)

YARMAK, G.A.

3 1982 219

Dolomite depostis in the Lesser Kara-Tau. Izv. AN Kazakh. SSR. Ser. geol. no.2:98-101 60. (MIRA 13:8)

(Kara-Tau-Dolomite)

 ANDRYUSHCHENKO, A.I., doktor tekhn. nauk; LAPSHOV, V.N., kand. tekhn. nauk; KURNOSOV, A.T., Inzh.; YARMAK, L.N., inzh.

Effectiveness of regenerative feed-water heating in waste-heat boilers. Teploenergetika 10 no.8:29-33 Ag *63. (MIRA 16:8)

1. Saratovskiy politekhnicheskiy institut.
(Boilers)

YARMAK, L.N., inzh.

Effective system for utilizing the heat of continuous boiler scavenging. Sbor. nauch. soob. SPI no.17:105-110 62.

(MIRA 17:6)

SHUVALOV, M.A., inzh.; ZAKHAROVA, L.B., inzh.; YARMAK, L.N., inzh.

Regulation of the temperature of superheated steam by varying the intensity of the flame in a boiler operating on natural gas. Sbor. nauch. soob. SPI no.17:98-104 162.

(MIRA 17:6)

YARMAK, L.N., inzh.

Calculation of optimum distribution of gas velocities in the gas lines of waste-heat boilers. Izv. vys. ucheb. zav.; energ. 7 no. 9:36-42 S '64. (MIRA 17:11)

1. Saratovskiy politekhnicheskiy institut. Predstavlena kafedroy teploenergetiki.

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962120020-8

IVANOV, K.I.; GOYEV, V.N.; USHKOV, N.N.; YARMAK, M.F.

Study of rock breaking in percussion drilling. Vzryv. delo no.46/3: 21-28 '61. (Boring)

BELOV, A.T.; IVANOV, K.I.; KLOCKKO, N.A.; SIDOROV, S.P.; USHKOV, N.N.;
YARMAK, M.F.

Ways of improving bits for BA-100 air percussion drilling rigs.
Vzryv. delo no.46/3:232-238 '61. (MIRA 15:1)
(Boring machinery)

 IVANOV, Konstantin Ivanovich; USHKOV, Nikolay Nikolayevich; YARMAK
Mikhail Redorovich, GOYEV, Vadim Mikitich; TARASOV, D. J.,

OLV. Fed.; PARMSEVSKIY, V.N., red.izd-va; SABITOV, A.,
tekhn. red.

[Boring holes in underground mining of ores] Burenie shpurov
i skvazhin pri podzemnoi dobyche rud. Moskva, Gosgortekhizdat, 1963. 130 p. (MIRA 16:9)

(Boring)

LYUBIMOV, K.A., kand.tekhn.nauk; YARMAK, M.I., inzh.

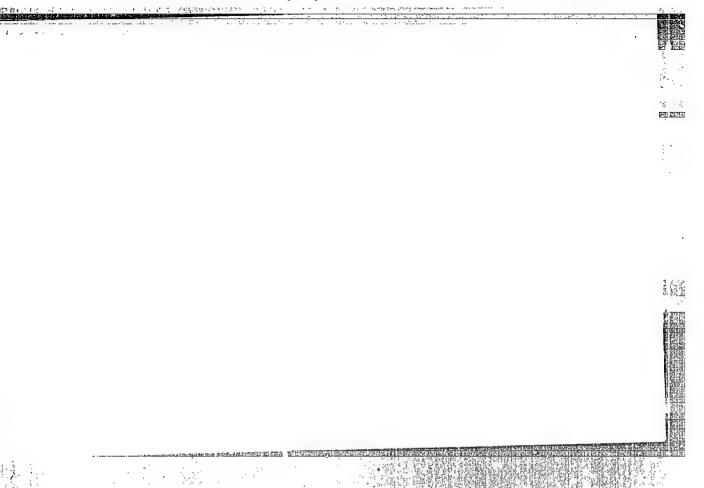
Economical communications and wire broadcasting cables. Vest.
elektroprom. 33 no.9:10-13 S '62. (MIRA 15:10)
(Electric cables) (Electric lines-Underground)

LYUBIMOV, K.A.; MAKHOV, Yu.V.; NAZAR'YEV, O.V.; YARMAK, M.I.; SHVARTSMAN, Y.O., otv. red.; VOLODARSKAYA, V.IG., red.; CHURAKOVA, V.A., tekhn. red.

[Telephone and wire broadcasting cables with polychlorovinyl and polyethylene insulation] Kabeli dlia sel'skoi telefonnoi sviazi i radiofikatsii s polikhlorvinilovoi i polietilenovoi izoliatsiei. Moskva, Sviaz'izdat, 1962. 42 (MIRA 16:5)

(Electric cables) (Polyethylene)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962120020-8



"APPROVED FOR RELEASE: 09/01/2001 CIA-RDF

CIA-RDP86-00513R001962120020-8

507/119-58-9 2/18 Perlovskiy, R. Sh., Yarmak, M. K., AUTPORS: Engineers tovyye magnitnyye ... Magnetic Gas Analyzers TITLE: BANGA CARL STORY Priborostroyeniye, 1958, Nr 9, pp. 3-7 (USSR) PERTODICAL: Two new types of magnetic gas analyzers were developed by ABSTRACT: the experimental design office for automation (CNBA); those types in the MCK -3 analyzer for the analysis of the fine a gas aimunus communing namy components, has the MCK of type Is a combined oxygen purity. MCK apparatus works on the principle assorting to stomical gas (i.e., a gas having constant oxygen content) flowing through a magnetic field has a different flow resistance as compared with the gas to be analyzed. This resistance implies a pressure drop which is used for determining the oxygen content of the gas to be analyzed The pressure drop to all and the latest the telephone anemometer coanget. to an unbalanced bridge circuit. The gas obtained but a very mostly Att [2015 1] GARA - 13

recommendation of the companies of the c

Magnetic Gas Analyzers

007/1/9-58-9-2/19

tween the pole pieces of a magnet so that a magnetic field intensity of about 40 000 to 50 000 Gauss is reached inside the slot. In order to have the temperature exactly adjustable a thermostat is used which is enulpped with a contact thermometer and an electronic relay. The gas analyzer described will be mass-produced with measuring ranges of 0 - 5. 0 - 10, 0 - 21, 0 - 50 and 15 - 45 % 0. The

The of measurement of the apparatus is supposed to be madiliar than 6. Of the maximum reading for each range.

MCK of reasonatus is a thermomagnetic gas analyzer that makes and if the percentage properties of oxygen in dependence on its temperature. A warm body, if places in an inhomogeneous magnetic field, may cause artificing convection. The apparatus counists of the absolute prossure governor of the RAD-2P type, the controlling rotation meter of the RR-4 type, the annular chamber of the gas analyzer, the pole pieces, and a needle valve. A thin-walled glass tube is introduced into the annular chamber having 2 platinum windings which may each be connected to a Wheatstone's (Weaston) bridge (as bridge arms).

Card 2/3

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8

Magnetic Gas Analyzers

SOV/119-58-9-2/18

The recalling of the magnetic gas analyzers does not depend on the exygen percentage of the gas mixture but on the partial pressure of exygen. The MGK -4 apparatus is to be manufactured for the following measuring ranges: 95 - 100, 90 - 100, 80 - 100, 50 - 100 and 20 - 80 50.

There are 4 figures.

Card 3/3

YARMAK, M.K.

AUTHORS:

Blazhennova, A.N., Engineer, Ikhlov, I.A., Engineer, Perlovskiy, R.Sh., Engineer, Yarmak, 67-58-2-6/26

M.K., Engineer

TITLE:

The Automatic Oxygen Gas Analyzers DPG and MGK (Avtomaticheskiye

kislorodnyye gazoanalizatory DPG and MNK)

PERIODICAL:

Kislored, 1958, // Nr 2, pp. 26-33 (USSR)

ABSTRACT:

This paper deals with the chemical, chemical-physical and physical methods of gas analysis which serve as a basis for the construction of apparatus. Preference is given to the chemical-physical method of depolarization and in the case of automatized plants, to the physical method, in which the paramagnetic properties of oxygen, by which it is distinguished from all other gases, is utilized. In the section: Magnetic methods of Oxygen analysis the ratio between the intensity of magnetization, volume or specific magnetic susceptibility and magnetic permeability is determined and duly expressed in the formulae. Furthermore, the theories are developed which serve as a basis for the elaboration of methods of gas analysis and on the strength of which suitable apparatus are built. The following methods are distinguished: 1.) Physical-, 2.) magnetomechanical-, 3.) thermomagnetic-, and 4.) magnetoelectrical methods. Preference is given

Card 1/2

The Automatic Oxygen Gas Analyzers MEK and DPG

67-58 -2-6/26

to the magnetomechanical (Ref 4-9) and to the thermomagnetic (Ref 10-17) methods. Among the latest types of Soviet gas analyzers the magnetic NGK-3 and the thermomagnetic NGK-2 and NGK-4 are mentioned. Only the two latter are, however, described as being in accordance with the field dealt with by this paper. In the section The Depolarization Method of Oxygen Analysis the latest Soviet automatic oxygen depolarization analyzer of the type DPG5 -52 is described. It was constructed on the basis of the principle of the depolarization of the electrodes polarized by the oxygen (in the course of cathode regeneration). It was designed by OKBA MKhD. The apparatus described is already being used in several industrial plants in the USSR. There are 5 figures, and 22 references, 9 of which are Soviet.

AVAILABLE:

Library of Congress

1. Oxygen-Analysis-Magnetics 2. Oxygen-Analysis-Polarization

Card 2/2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962120020-8"

AUTHOR:

Yarmak, M. K., Engineer

sov/67-11-5-10/18

TITLE:

Automatic Oxygen-Gas Analyzers (Avtomaticheskiye

kislorodnyye gazoanalizatory)

PERIODIÇAL:

Kislorod, 1958, Vol 11, Nr 5, pp 55 - 56 (USSR)

ABSTRACT:

This is a report dealing with some foreign apparatuses which have brought considerable advancement in the field of oxygen analysis. The apparatuses under review are the thermomagnetic plant "Oximat" of the firm Siemens und Halske (Figure, general scheme and cross-section of the magnetic experiment chambers), the thermomagnetic plant of the firm Hartmann und Braun "Magnos 5" (Figure) (electrical and gasanalytical scheme), and a gas-analyzer of the firm Semak

scheme), and a gas-analyzer of the firm Bottom (Figure of the scheme). Two further models of mechano-(Figure of the scheme). Two further models of mechanomagnetic gas analyzers of the firm Bekman are mentioned. All the apparatuses mentioned above are equipped with several different scale ranges of the \$0_2\$. There are

4 figures.

Card 1/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962120020-8

YARMAK, M. Ye.

"Present-Day Automatic Magnetic Methods for the Analysis of Oxygen,"
Experimental Design Bureau, Ministry of Chemical Industry, Khimicheskaya Promyshlennost',
No. 2, Mar. 57, pp 95-102.

Abstract in SUM: 1391

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962120020-8

YARMAK, M. KUSHETBOV, G., YIRGAY, H.

Farm Management

A textbook on ("Planned utilization of land." Reviewed by I. Kuvoninov, G. Katznetsov, N. Yarmak.) 3ots. sel'.khoz. no. 3, 1952.

MONTHLY LIST OF MUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, AUGUST 1952. UNCLASLIFIED.

YARMAK, Nikoley Iosifovich; SHEV'YEVA, M.Ye., red.; SUKHODOL'SKAYA, I.H., tekhn.red.; GOR'KOVA; Z.D., tekhn.red.

[Agriculture in the Korean People's Democratic Republic]
O sel'skom khoziaistve Koreiskoi Narodno-Demokraticheskoi
Respubliki. Noskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 78 p.
(MIRA 13:1)

(Korea, North--Agriculture)

AUTHORS:

Zakharikov, N. A., Blokh, S. A., Sen', Z. P., SOV/72-58-9-9/20

Lesovoy, N. V., Yarmak, O. F.

TITLE:

Non-Recurrent Baking of Porcelain (Skorostnoy odnokratnyy

obzhig farfora)

PERIODICAL:

Steklo i keramika, 1958, ANr 9, pp 20 - 24 (USSR)

ABSTRACT:

This is an investigation of the influence of the rate of heating of the products upon their quality, if they are baked by a non-recurrent process without casing. The tests were carried out with porcelaine cups, sizes B-53 and "Kiyevskaya". The ingredients of the batch are given in table 1 and the results for the chemical analysis (in percent) are given in table 2. The molecular formula

for the batch is also presented. For increasing the

mechanical strength of the semi-finished porcelaine product

0,3% of carboxy-methyl cellulose were added to the batch. 0,2% of fluid glass and 0,1% of soda were used in the preparation of the electrolyte. The porcelaine cups were cast in plaster molds se fashioned to give a wall strength of 1,5-2,5 mm. Moisture is driven off to

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Non-Recurrent Baking of Porcelain

SOT/72-58-9-9/20

a content of 1% under natural conditions. The ware is then glazed with a 0-45VZPA hand operated atomizer. The raw materials for the glaze are listed in table 1, their chemical analysis is detailed in table 2. The molecular formula of the glaze is also given. The glazed cups were dried to a humidity of 0,5% and then baked in the laboratory furnace (Fig 1). The maximum temperature in the furnace was 1320°. The cups were placed on the bottom of the furnace without a casing and were cooled according to a schedule specified by the diagram in figure 2. The heating and baking period at this temperature varied between 2-5 hours. Data concerning the baking conditions are presented in table 3. The degree of whiteness of the body was determined by means of a FM | photometer, whereas the water absorption and the heat resistance of the test products was checked according to GOST 7591-55. The best whiteness was obtained with combustion gases with a CO content of 3-4% (Fig 3). The rate of heating varied between 60 and 300° per hour. At this rate the quality of the products obtained is by no means inferior

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 Non-Recurrent Baking of Porcelain

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to that of the products from the Baranovka and Kiyev Works. Their water absorption does not exceed 0,39% . The specimens corresponded to the requirements imposed upon them in the checking of thermal and chemical resistivity. The glaze also exhibited a customary quality. Investigations of the microstructure of the body were carried out with a MP-3 microscope and X-ray structural analyses were made on the URS-70 instrument. In table 4 the structures of customary and of test products are portrayed. As can be seen they do not differ at all. Figures 4 to 8 contain micrographs of polished porcelaine sections made after different baking periods. They do not indicate any essential variations in structure. The duration of baking is therefore not determined by the physical and chemical transformations in the porcelaine but only by the heating facilities of the furnaces. The cooling process has hitherto not been the object of minute research. Preliminary experiments showed that a cooling of porcelaine cups from 1320° to 100° is possible within 8 - 10 minutes without impairing the quality of the product. The experiments showed that a non-recurrent burning without casing

Card 3/4

Non-Recurrent Baking of Porcelain

507/72-58-9-9/20

ef porcelaine products in short automatic continuous car tunnel furnaces is possible. There are 8 figures and 4 tables.

ASSOCIATION:

Institut ispol'zovaniya gaza AN Ukrainskoy SSR (Institute of Gas Utilization AS Ukr SSR)

Nauchne-issledovatel'skaya laboratoriya Kiyevskoge sovnarkhoza (Scientific Research Institute of the Kiyev

Council of National Economy)

Card 4/4

SEN', Z.P., kand.tekhn.nauk; TEREKHOVSKIY, B.I. [Terekhovs'kyi, B.I.],
inzh.; YARMAK, O.F., inzh.

Some data on the effect of water vapor on the porcelain body in
firing. Leh.prom. no.1:79-83 Ja-Mr '62. (MIRA 15:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut steklyannoy
i farforo-fayansovoy promyshlennosti.
(Ukraine--Pottery)

SEN', Z.P.; SIVCHIKOVA, M.G.; LUCHKA, M.Kh.; BELYAKOVA, I.N.;
YARMAK, O.F.; DAYN, F.L.

Possibility of lowering the temperature of porcelain firing and of its replacement in drying under high temperatures.

(MIRA 15:9)

Stek.i ker. 19 no.9:21-24 S '62.

(Porcelain)

YARMAK, O.F.

Studying the microstructure of glazes for tableware china dependent on the composition and temperature conditions of glazing. Leh.prom. no.1:77-83 Ja-Mr 63. (MIRA 16:4)

1. Ukrainskiy nauchno-issledovatel skiy institut stekol noy i far-foro-fayansovoy promyshlennosti.

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YARMAK, O.F.; TRESVYATSKIY, S.G. [Tresviats'kyi, S.H.], doktor tekhm. nauk

Study of the mullitization process in the porcelain mass.

Leh. prom. no.2:69-71 Ap-Je¹64 (MIRA 17:7)